KYLE O'SULLIVAN

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SUMMARY

MSc Computer Science student with a First Class Honours in Management. Self-taught developer with **2 apps published on the App Store** and experience across frontend, backend, and mobile. Eager to learn and looking for a grad role where I can develop my skills further.

Tech: Swift, SwiftUI, SwiftData, async/await, Vision | Flutter, Dart | TypeScript, React, Next.js | Firebase, REST APIs | Git, CI/CD

EDUCATION

MSc Computer Science   University of Bath
MyWorld Scholar (£5,000) – One of 5 recipients university-wide   *Sep 2025 – Sep 2026*

- Modules: Advanced Software Engineering, Machine Learning, Human-Computer Interaction, Databases
- Studying Agile methodologies, version control workflows (Git), CI/CD pipelines, and test-driven development

BSc Management   University of Bath
First Class Honours – #1 in cohort for Business Analytics, Strategy with AI   *Sep 2021 – Jul 2025*

- **Exchange:** Nanyang Technological University, Singapore – Human-Computer Interaction focus; studied UI/UX design principles, user research methods, and interaction design patterns
- **Exchange:** Yonsei University, Seoul – Venture Capital & Entrepreneurship; collaborated with international teams on startup case studies

SOFTWARE PROJECTS

OnlyBills – AI Receipt Scanner   Sole Developer
Live on App Store | Swift, SwiftUI, SwiftData, Vision   *Nov 2025*

- **Solo-developed** native iOS app from concept to App Store release using MVVM-lite architecture with ObservableObject state management
- Built async networking layer with URLSession and async/await; used Task.detached for background processing and MainActor for thread-safe UI updates
- Implemented SwiftData persistence with @Model entities, cascade deletion rules, and @Relationship for complex data graphs
- Wrote **100+ unit tests** using Swift Testing framework covering bill splitting logic, edge cases, and integration scenarios
- Integrated Apple Vision framework for on-device receipt detection and Google Gemini API for intelligent OCR parsing

KyleOS – Interactive Portfolio   Personal Project
kyleosullivan.uk | Next.js, React, TypeScript, Tailwind CSS   *Nov 2025*

- Built interactive macOS-style web interface with draggable windows, dock, and desktop icons using custom React hooks
- Engineered state management for concurrent windows with z-index layering and responsive layouts
- Integrated AI chatbot using Google Gemini API with context-aware responses

Frift – Student Marketplace   Founder & Lead Developer
Live on App Store | Flutter, Firebase, Cloud Functions   *May 2024 – Present*

- **Built and shipped** cross-platform mobile app with real-time messaging, push notifications, and image handling
- Designed Firestore schema and Cloud Functions for serverless backend; navigated App Store review process
- Won Santander X competition; selected as case study for University of Bath Management module

WORK EXPERIENCE

180 Degrees Consulting   Strategy Consultant
University of Bath – Oliver Wyman Partnership   *Oct 2023 – Apr 2024*

- Collaborated in cross-functional team of 5; presented data-driven recommendations weekly to stakeholders

Dreamfora (App Startup)   Marketing Intern
Seoul, South Korea   *Jun – Aug 2023*

- Worked at a mobile app startup in an international team; gained insight into app development lifecycle

ADDITIONAL

- **Guest Lecturer:** Delivered workshop to 18 widening participation students on maximising international exchange opportunities and securing funding for study abroad programmes
- **Achievements:** £7,000+ esports winnings (teamwork under pressure); £35,000+ total scholarships
- **Interests:** UI/UX design trends, iOS development, open-source contribution, competitive gaming